

09/701947

526 Rec'd PCT/PTO 05-DEC-2000

Docket No. 235.0001 0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Elliot Altman

Serial No.: U.S. National Stage Application filing of PCT/US99/23731

Title: STABILIZED BIOACTIVE PEPTIDES AND METHOD OF
IDENTIFICATION, SYNTHESIS AND USE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington D.C. 20231

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application, including a copy of the PCT Search Report and references cited thereon. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicant further requests that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

CERTIFICATE UNDER 37 C.F.R. 1.10

Express Mail no: EL542401520US

Date of Deposit: December, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Attn: Box PCT, Washington, D.C. 20231.

By: 

Louise M. Guggisberg

December 5 2000

Respectfully submitted,
Elliot Altman
By his Representatives,
Mueting, Raasch & Gebhardt, P.A.
P.O. Box 581415
Minneapolis, MN 55458-1415
Phone: (612)305-1220
Facsimile: (612)305-1228

By: 

Victoria A. Sandberg
Reg. No. 41,287
Direct Dial (612)305-1226

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 235.0001 0101	Serial No.: Not Assigned
		09/701947
	Applicant(s): Altman	
	Filing Date: herewith	Group: unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
	5,589,364	12/31/96	Williams et al.			
	5,654,451	08/05/97	Kari			
	5,792,831	08/11/98	Maloy			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	SubClass	Translation	
						Yes	No
	WO 90/07862	07/26/90	PCT				
	WO 92/07071	04/30/92	PCT				
	WO 93/03156	02/18/93	PCT				
	WO 96/40721	12/19/96	PCT				
	WO 97/04110	02/06/97	PCT				
	WO 99/35494	07/15/99	PCT				
	WO 99/36554	07/22/99	PCT				
	WO 99/53079	10/21/99	PCT				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

	Agerberth et al., "Amino Acid Sequence of PR-39. Isolation from Pig Intestine of a New Member of the Family of Proline-arginine-rich Antibacterial Peptides," <u>Eur J Biochem.</u> , 202(3):849-854 (1991).
	Banner et al., "Structure of the ColE1 Rop Protein at 1.7 Å Resolution," <u>J. Mol. Biol.</u> , 196:657-675 (1987).
	Betz et al., "De Novo Design of Native Proteins: Characterization of Proteins Intended to Fold into Antiparallel, Rop-like, Four-Helix Bundles," <u>Biochemistry</u> , 36:2450-2458 (1997).
	Cunningham et al., "Proline Specific Peptidases," <u>Biochi. Biophys. Acta</u> , 1343:160-186 (1997).
	Frank et al., "Amino Acid Sequences of Two Proline-rich Bactenecins. Antimicrobial Peptides of Bovine Neutrophils," <u>J. Biol. Chem.</u> , 265(31):18871-18874 (1990).
	Giza et al., "A Self-inducing Runaway-replication Plasmid Expression System Utilizing the Rop Protein," <u>Gene</u> , 78(1):73-84 (1989).
	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus ECOLAC 7477 pb ds-DNA, Accession No. J01636, "E. coli Lactose Operon with lacI, lacZ, lacY and lacA Genes," [online]. Bethesda, MD (Sept. 15, 1989).<URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=Nucleotide&list_uids=146575&dopt=GenBank , (13 pgs.).

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 235.0001 0101	Serial No.: not assigned
		09/701947
	Applicant(s): Altman	
	Filing Date: herewith	Group: unknown

		National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus SYNpBR322 4361 bp DNA circular SYN, Accession No. J01749, "Plasmid pBR322, Complete Genome," [online]. Bethesda, MD (May 20, 1991). <URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=Nucleotide&list_uids=208958&dopt=GenBank , (13 pgs.).
		National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus SYNpUC8CV 2665 bp DNA circular SYN, Accession No. L09132, "pUC8c Cloning Vector (beta-galactosidase mRNA on Complementary Strand)," [online]. Bethesda, MD (March 4, 1993). <URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=Nucleotide&list_uids=146575&dopt=GenBank , (18 pgs.).
		Munson et al., "Speeding up Protein Folding: Mutations that Increase the Rate at Which Rop folds and Unfolds by Over Four Orders of Magnitude," <u>Folding & Design</u> , 2:77-87 (1997).
		Plow et al., "Inhibition of Fibrinogen Binding to Human Platelets by the Tetrapeptide Glycyl-L-prolyl-L-arginyl-L-proline," <u>Proc. Natl. Acad. Sci. USA</u> , 79:3711-3715 (1982).
		Soberon et al., "Construction and Characterization of New Cloning Vehicles. IV. Deletion Derivatives of pBR322 and pBR325," <u>Gene</u> , 9(3-4):287-305 (1980).
		Steif et al., "Subunit Interactions Provide a Significant Contribution to the Stability of the Dimeric Four- α -Helical-Bundle Protein ROP," <u>Biochemistry</u> , 32(15):3867-3875 (1993).
		Vanhoof et al., "Proline Motifs in Peptides and Their Biological Processing," <u>FASEB J.</u> , 9:736-744 (1995).
		Walter et al., "Proline Specific Endo- and Exopeptidases," <u>Mol. Cell. Bioch.</u> , 30(2):111-127 (1980).
		Yansura et al., "Use of the <i>Escherichia coli</i> lac Repressor and Operator to Control Gene Expression in <i>Bacillus subtilis</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 81:439-443 (1984).
		Yaron et al., "Proline-Dependent Structural and Biological Properties of Peptides and Proteins," <u>Crit. Rev. Biochem. Mol. Biol.</u> , 28(1):31-81 (1993).

EXAMINER	Date Considered
<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	